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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/003,986	10/31/2001		Sergei Kalashnikov	10541-449	10541-449 6073	
29074	7590	11/20/2002				
BRINKS HOFER GILSON & LIONE EXAMINER				INER		
P.O. BOX 10 CHICAGO,	OX 10395 AGO, IL 60611			REIS, TRAVIS M		
				ART UNIT	PAPER NUMBER	
				2859		
				DATE MAILED: 11/20/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		Application No.	Applicant(s)	
		10/003,986	KALASHNIKOV ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Travis M Reis	2859	
Period fo	The MAILING DATE of this communication ap or Renly	pears on the cover sheet with the	correspondence address	
A SHO THE N - Exter after - If the - If NO - Failur - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a repropersion of the period for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statutive ply received by the Office later than three months after the mailing	136(a). In no event, however, may a reply be to solve within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).	
Status	ed patent term adjustment. See 37 CFR 1.704(b).			
1)	Responsive to communication(s) filed on	·		
2a) <u></u> □	This action is FINAL . 2b)⊠ T	his action is non-final.		
3)	Since this application is in condition for allow closed in accordance with the practice under	rance except for formal matters, per Ex parte Quayle, 1935 C.D. 11,	prosecution as to the merits is 453 O.G. 213.	
-	on of Claims			
,—	Claim(s) <u>1-21</u> is/are pending in the application			
	4a) Of the above claim(s) is/are withdra	awn from consideration.		
5)	Claim(s) is/are allowed.		•	
-	Claim(s) <u>1-21</u> is/are rejected.			
	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/	or election requirement.		
	i on Papers The specification is objected to by the Examin	۵r		
,—	The drawing(s) filed on <u>31 October 2001</u> is/are		by the Examiner.	
10)[Applicant may not request that any objection to the		· ·	
11)[7]	The proposed drawing correction filed on			
,	If approved, corrected drawings are required in re			
12)	The oath or declaration is objected to by the E	xaminer.		
Priority ι	under 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119	(a)-(d) or (f).	
a)	☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority documen	nts have been received.		
	2. Certified copies of the priority documen	nts have been received in Applica	ation No	
* (3. Copies of the certified copies of the price application from the International Bee the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).		
14) 🗌 <i>A</i>	Acknowledgment is made of a claim for domes	tic priority under 35 U.S.C. § 119	(e) (to a provisional applicatio	n).
a 15)[_] ،	 The translation of the foreign language process. Acknowledgment is made of a claim for domest 	rovisional application has been re stic priority under 35 U.S.C. §§ 12	eceived. 20 and/or 121.	
Attachmen	nt(s)			
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)	
J.S. Patent and T	Trademark Office			

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DETAILED ACTION

Claim Objections

1. Claim 6 is objected to because of the following informalities: in line 2, "and" should be ---an---. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 11 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim language states that "each of said light sources includes a lens." This appears to contradict the disclosure and figures since they show that the lens is a part of the light collector.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1-15, 18-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishikawa et al. (U.S. Patent 4258643) in view of Salmon et al. (U.S. Patent 5703612).

With reference to claims 1 & 2, Ishikawa et al. disclose an instrument pointer illuminating apparatus (10) comprising an instrument pointer (22) with a hub (col. 1 line 55) with a top and bottom surface mounted on a spindle (20); a plurality of light sources (24) positioned radially around said spindle adapted to supply light upward (Figure 5) into said instrument pointer; said instrument pointer including a needle portion and a light reflecting portion, said light reflecting portion being flared outward from said needle portion, said light reflecting portion having a plurality of reflective surfaces (18a, 18b) presenting an internally reflective surface adapted to reflect light received from said light sources outward into said needle portion (Figures 2 & 5).

Ishikawa et al. do not disclose expressly a gage motor with a gage motor shaft extending therefrom.

Salmon discloses an illuminated pointer for an analog gauge and related method of use and manufacture with a gage motor (32) and gage motor shaft (56) (Figure 3). Therefore, it would have been obvious to one with ordinary skill in the art at the time of the invention was made to replace the spindle disclosed by Ishikawa et al. with the gage motor and gage motor shaft as taught by Salmon in order that the pointer is controllably movable.

With reference to claims 3 & 12, The instrument pointer illumination apparatus of claim 2 wherein said light reflecting portion is adapted to cover substantially all of said top surface of said hub to reflect substantially all of the light from said light sources

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outward into said needle portion at any angular position of said needle portion (Figure 2).

With reference to claim 4, Ishikawa et al. disclose said light reflective portion is flared outward from said needle portion across said hub (Figure 2).

With reference to claim 5, Ishikawa et al. disclose said light reflecting portion includes a plurality of reflective surfaces adapted to reflect light received through said hub portion outward into said needle portion (Figure 2).

With reference to claim 6, Ishikawa et al. disclose each of said reflective surfaces presents an internally reflective surface adapted to reflect light from said light sources outward into said needle portion (Figure 2).

With reference to claim 7, Ishikawa et al. disclose said plurality of reflective surfaces are matched to each other such that light is reflected from each of said reflective surfaces outward into said needle portion (Figures 2-5).

With reference to claim 8, Ishikawa et al. disclose said needle portion includes a top surface and a bottom surface, said top surface being coated with a top diffusing material (22) adapted to diffuse light outward through said top surface, and said bottom surface being coated with a material (22a) adapted to internally reflect within said needle portion substantially all of the light which hits said bottom surface (Figure 2).

With reference to claim 9, Ishikawa et al. disclose further including a light guide (14) mounted to said bottom surface of said hub portion adapted to propagate light from said light sources upward into said pointer (Figure 5).

With reference to claims 10 & 19, Ishikawa et al. disclose said light sources are positioned radially around said gage motor shaft and axially below said pointer and are adapted to supply light upward into said light collecting portion (Figure 5).

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With reference to claims 11 & 14, Ishikawa et al. disclose each of said light sources includes a lens (26b, 28b) for focusing the light produced by said light source (col. lines 53-58).

With reference to claim 12, Ishikawa et al. disclose a reflector (18) surrounding said gage motor shaft adapted to reflect light from said light sources upward into said pointer (Figure 2).

With reference to claim 13, Ishikawa et al. disclose a light collector (14a) surrounding said reflector adapted to focus light from said light sources onto said reflector (Figures 1 & 3).

With reference to claims 15 & 20, Ishikawa et al. disclose said reflector (18) is conical in shape, whereby light from said light sources can be collected from any angular position around said gage motor shaft and reflected upward into said light collection portion (22a) of said instrument pointer (Figures 2 & 5).

With reference to claim 18, Ishikawa et al. disclose said lenses (26b, 28b) of said light collector (14a) focus the light collected by said lenses into parallel beams (Figure 5).

Ishikawa et al. disclose all of the instant claimed invention as stated above in the rejection of claims 1-15 & 18-20 but does not disclose expressly said light sources are light emitting diodes.

Salmon et al. discloses an illuminated pointer for an analog gauge and related method of use and manufacture wherein the light source (44) is an LED (col. 4 lines 32-33). Therefore, it would have been obvious to one with ordinary skill in the art at the time of the invention was made to replace the light sources disclosed by Ishikawa et al.

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with the LEDs disclosed by Salmon et al. since LEDs & are recognized as alternative engineering choices for light sources.

7. Claim 16 & 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishikawa et al. as applied to claims 1-15-18-21 above, and further in view of Beeson et al. (U.S. Patent 5521725).

With reference to claim 16, Ishikawa et al. disclose all of the instant claimed invention as stated above in the rejection of claims 1-15 & 18-20 but does not disclose expressly said lenses of said light collector are astigmatic lenses, whereby in the horizontal plane said lenses focus the light onto an axis coaxial with said gage motor shaft, and in the vertical plane said lenses focus the light into parallel beams.

Beeson et al. discloses an illumination system employing an array of microprisms that uses an astigmatic lens (80) (col. 7 lines 37-39). Therefore, it would have been obvious to one with ordinary skill in the art at the time of the invention was made to replace the regular lens disclosed by Ishikawa et al. with an astigmatic lens as disclosed by Beeson et al. in order that the light path will be better directly focused.

With reference to claim 17, Ishikawa et al. discloses said light sources (24) are positioned around said gage motor shaft axially below said instrument pointer (22) and radially outward of said light collector (Figure 2), whereby said light collector (14a) focuses light onto said reflector (18) and said reflector reflects the light upward into said instrument pointer (Figure 5).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nakamura et al. disclose an illuminated indicator gauge (U.S. Patent 4274358). Murphy discloses an illuminated pointer with axial light source (U.S.

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Patent 6312136).

Patent 5142456). Muramatsu discloses a gauge for an automobile (U.S. Patent 5291851). Masuda et al. discloses an illuminated slit pointer device for vehicle instrument (U.S. Patent 5320062). Ohta et al. discloses a card-carried indicating device (U.S. Patent 5529014). Furuya et al. discloses a vehicular display device (U.S. Patent 5556187). Skiver et al. discloses a surface mounted gauge with illuminated pointer (U.S. Patent 5546888). Perry et al. discloses a metallized high intensity gauge pointer (U.S. Patent 5911492). Noll discloses an illumination for a display (U.S. Patent 6004001). Kalashikov discloses an instrument pointer illuminating apparatus (U.S.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Travis M Reis whose telephone number is (703) 305-4771. The examiner can normally be reached on 8:00--5:00 Monday--Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (703) 308-3875. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Travis M Reis Examiner Art Unit 2859 Diego Gutierrez Supervisory Patent Examiner Technology Center 2800

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tmr November 14, 2002